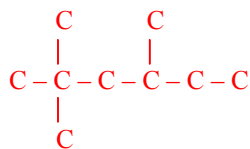
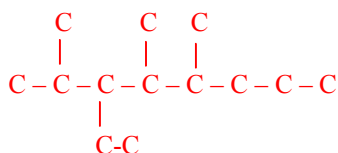


Question 2. Draw the structures of the following compounds:

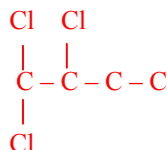
a) 2,2,4-trimethylhexane



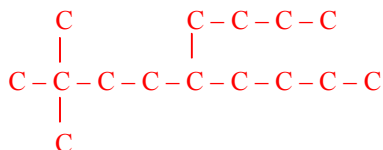
d) 3-ethyl-2,4,5-trimethyloctane



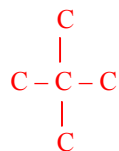
b) 1,1,2-trichlorobutane



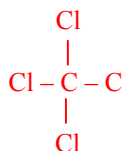
e) 5-butyl-2,2-dimethylnonane



c) 2,2-dimethylpropane

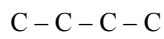


f) 1,1,1-trichloroethane



Question 3. Explain why the following molecules have an incorrect name. What is the correct name?

a) 1,3-dimethylbutane



Should be 3-methylpentane

b) 4-methylpentane

Should be 2-methylpentane

c) 2,2-diethylbutane

Should be 3,4-dimethylhexane

d) 2-ethyl-3-methylpentane

Should be 3,4-dimethylhexane

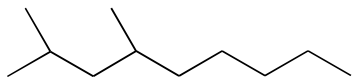
Worksheet 2

Hydrocarbons

Question 1.

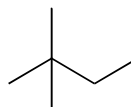
Give the systematic name for the following compounds.

a.



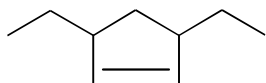
2,4-dimethylnonane

b.



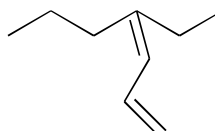
2,2-dimethylbutane

c.



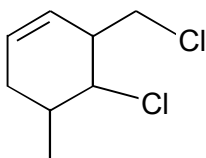
3,4-diethylcyclopentene

d.



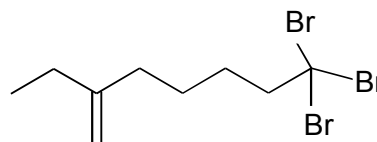
4-ethyl-1,3-heptadiene

e.



4-chloro-3-chloromethyl-5-methyl-1-cyclohexene

f.

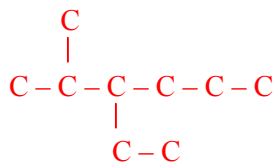


7,7,7-tribromo-2-ethyl-1-heptene

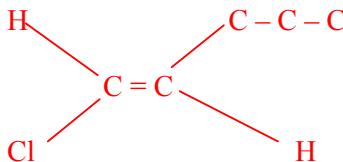
Question 2.

Draw structures corresponding to the following names. Which name is incorrect and what is its correct name.

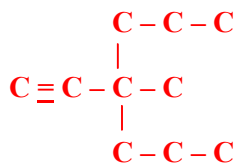
a. 2-methyl-3-ethylhexane (**ok**)



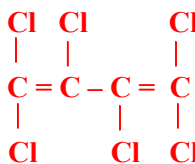
b. trans-1-chloro-1-pentene (**ok**)



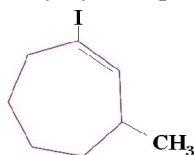
c. 3,3-dipropyl-1-butyne (**wrong**)
3-methyl-3propyl-1-hexyne



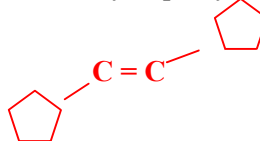
d. hexachloro-1,3-butadiene (**ok**)



e. 1-iodo-3methylcycloheptane

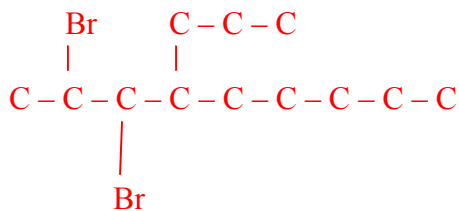


f. 1,2-dicyclopentylethene (**wrong**)



Needs cis or trans
designation (trans
shown here)

g. 2,3-dibromo-4-(methylethyl)nonane (**wrong**)
2,3-dibromo-4-propylnonane



h. 3-(2-bromoethyl)-1-hexene

